

Figure 1. Unit hydrographs for (a) parent basins, and (b) interior points.

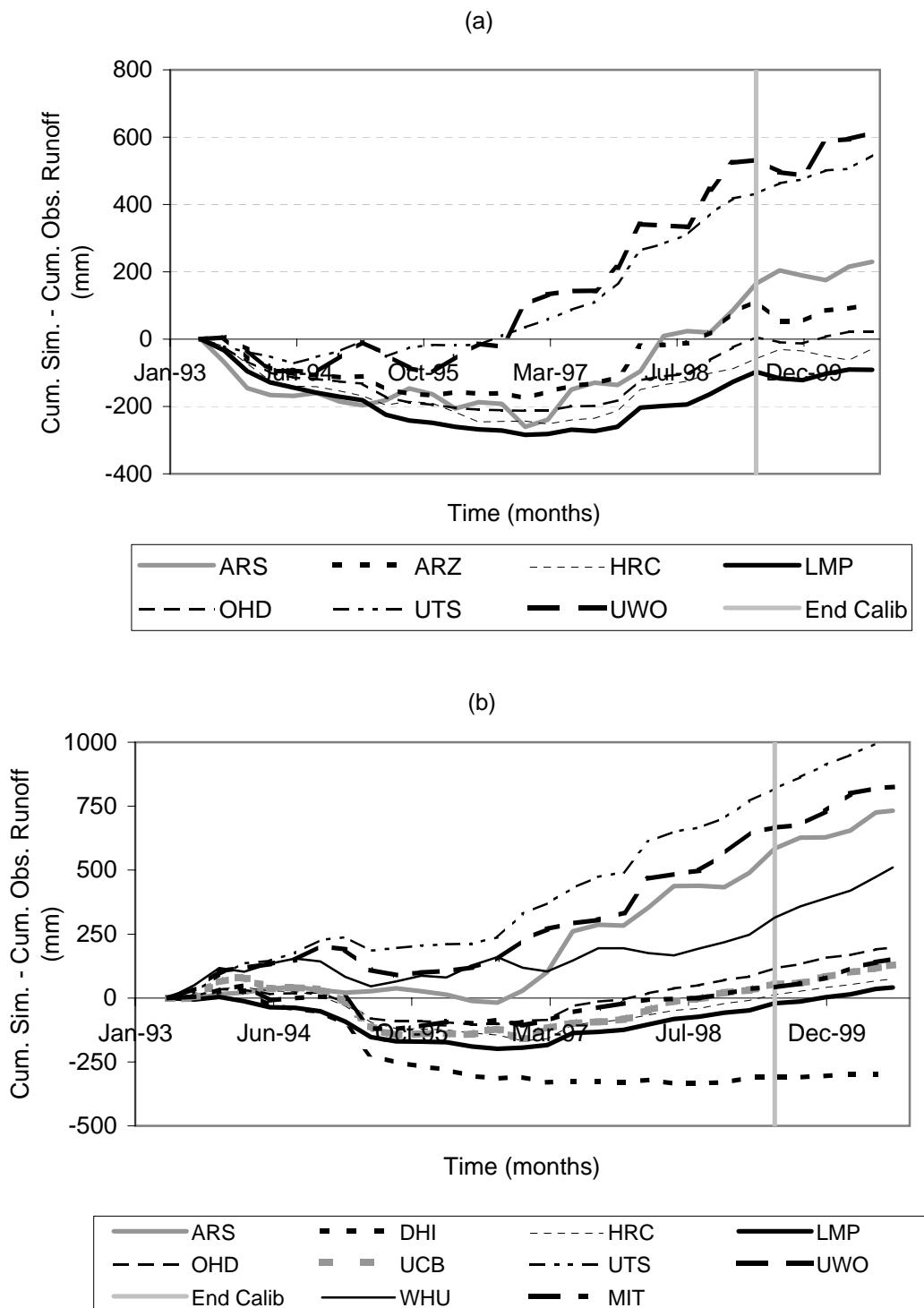


Figure 2. Cumulative simulation errors for calibrated models: (a) Watts and (b) Blue

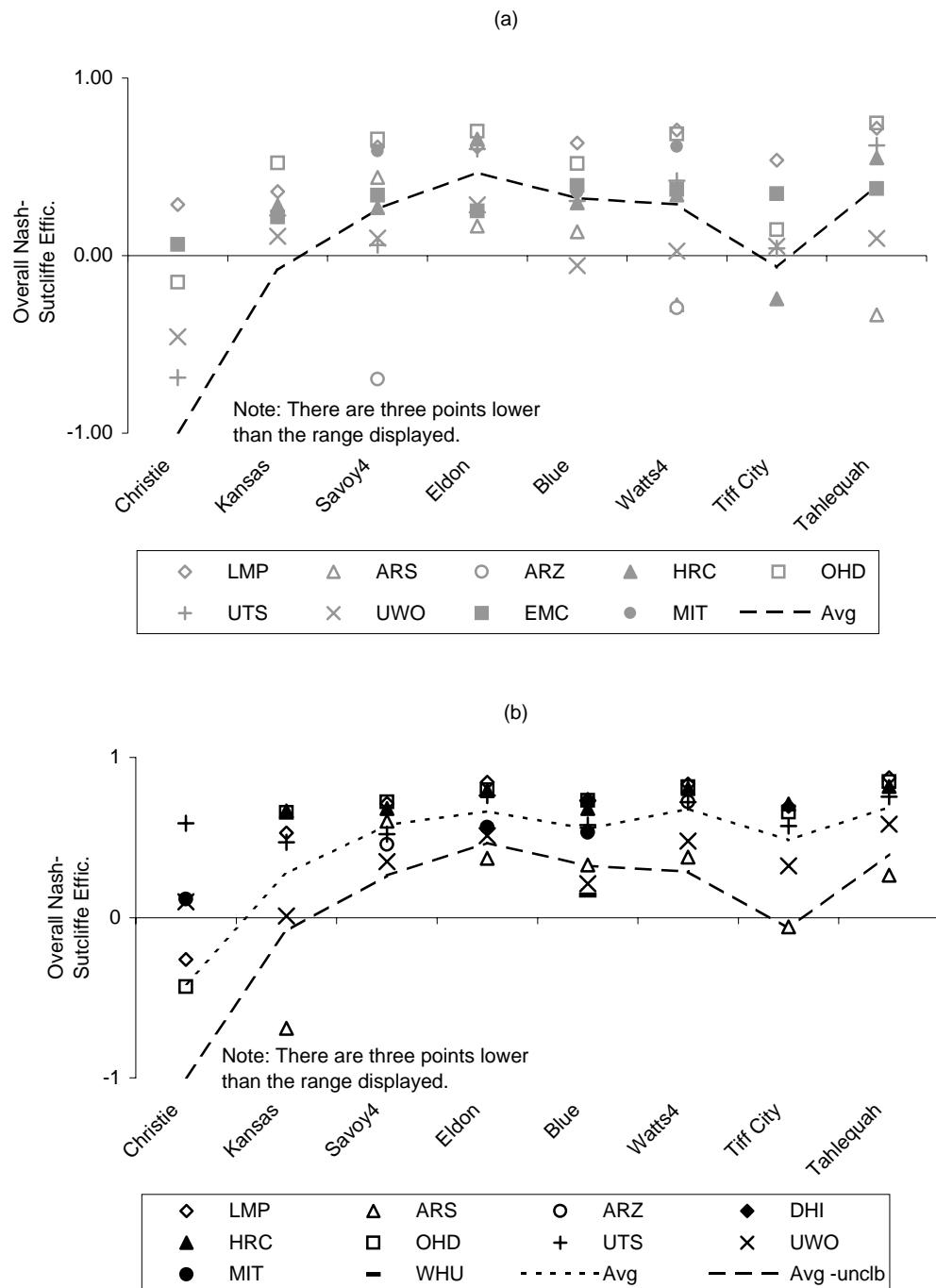


Figure 3. Overall Nash-Sutcliffe for April 1994 – July 2000: (a) uncalibrated models and (b) calibrated models.

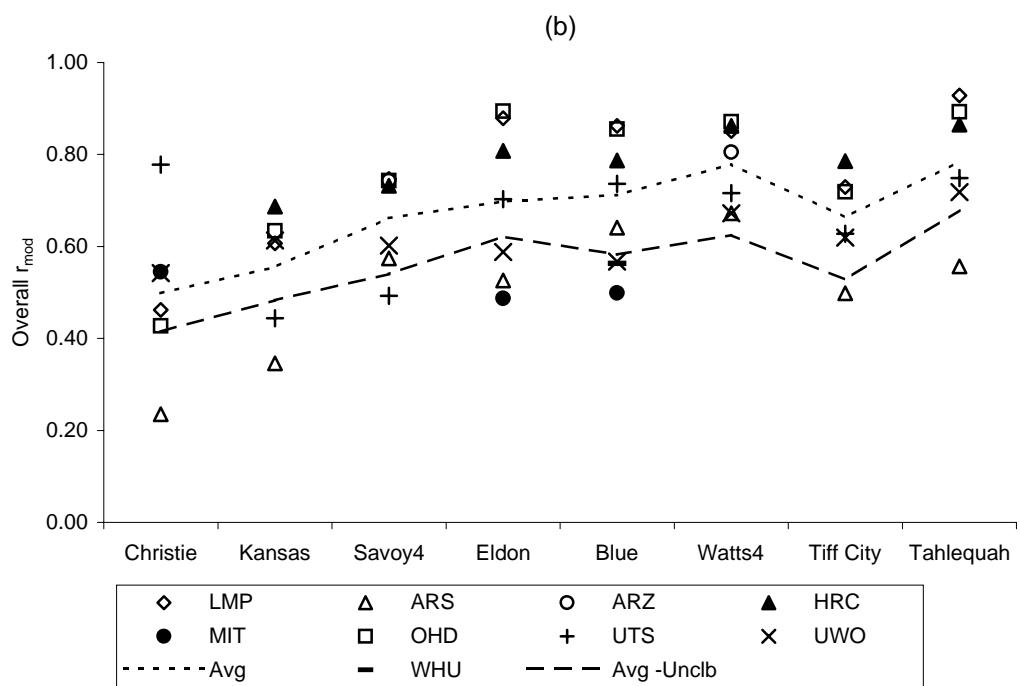
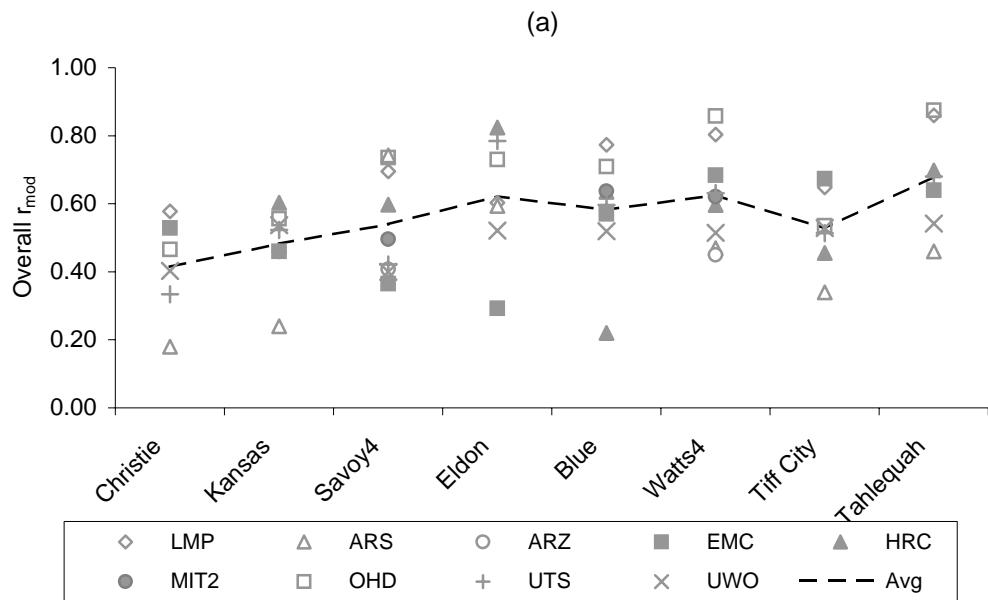


Figure 4. Overall r_{mod} for April 1994 - July 2000: (a) uncalibrated models and (b) calibrated models.

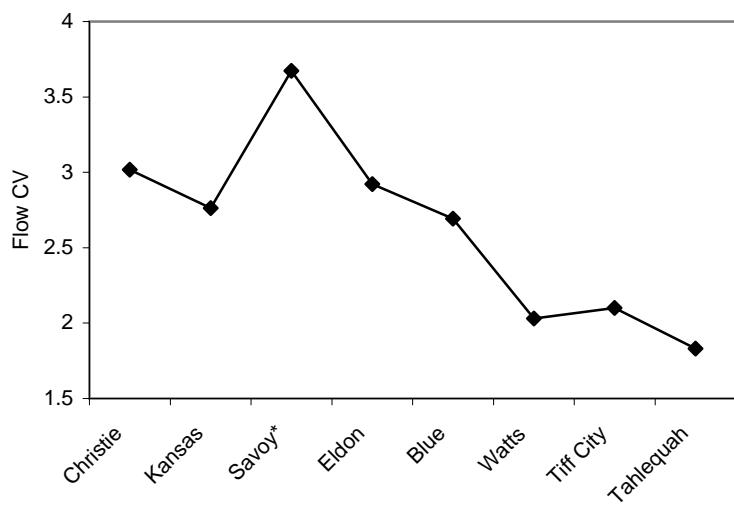


Figure 5. Coefficients of Variation (CV) for hourly streamflow, April 1994 - July 2000 (*Savoy period is Oct.)

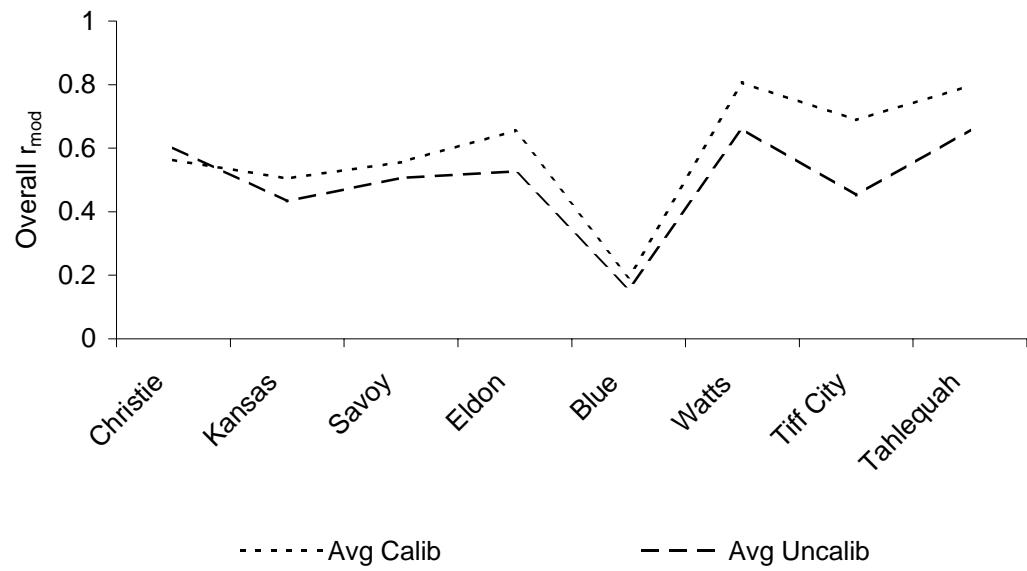
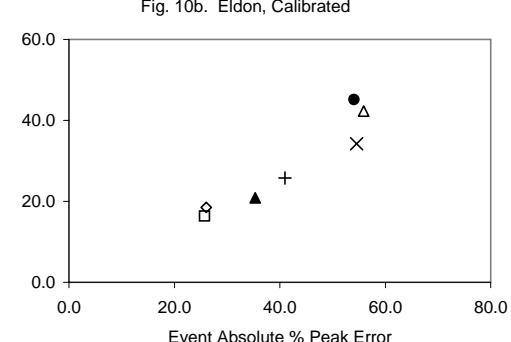
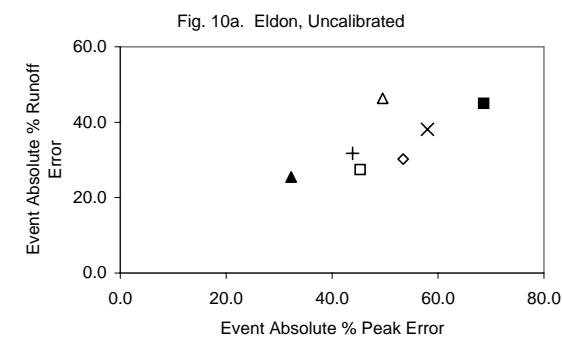
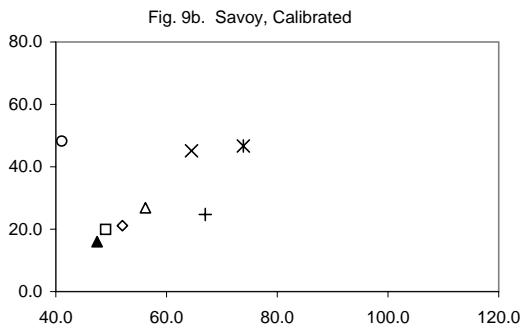
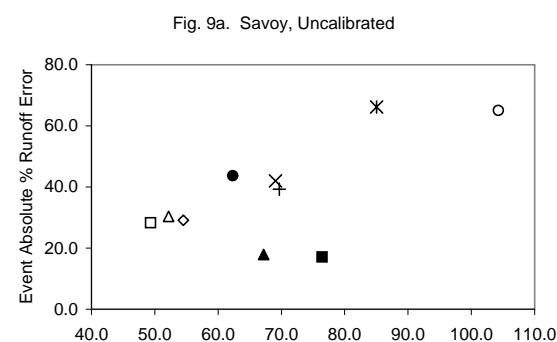
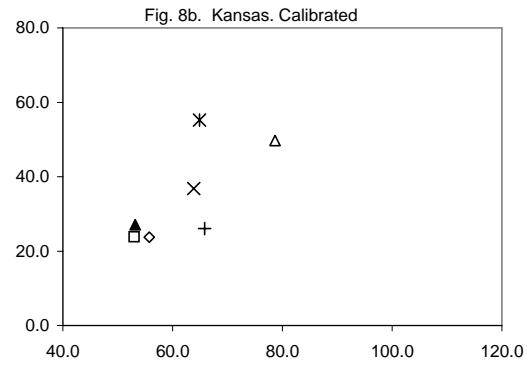
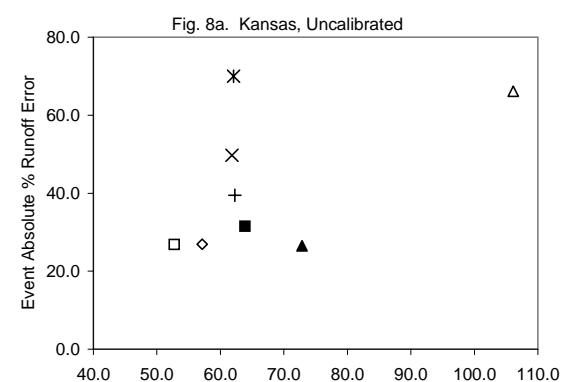
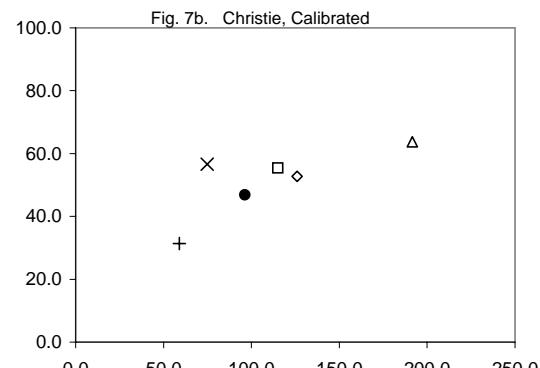
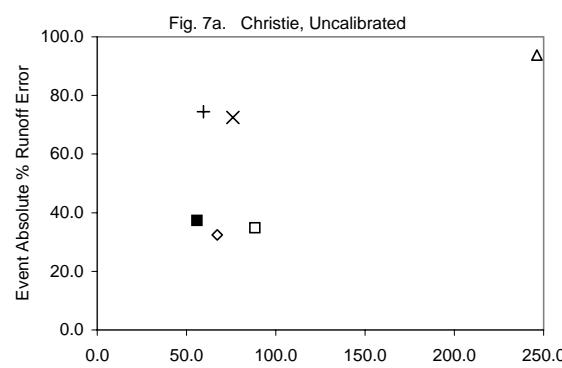
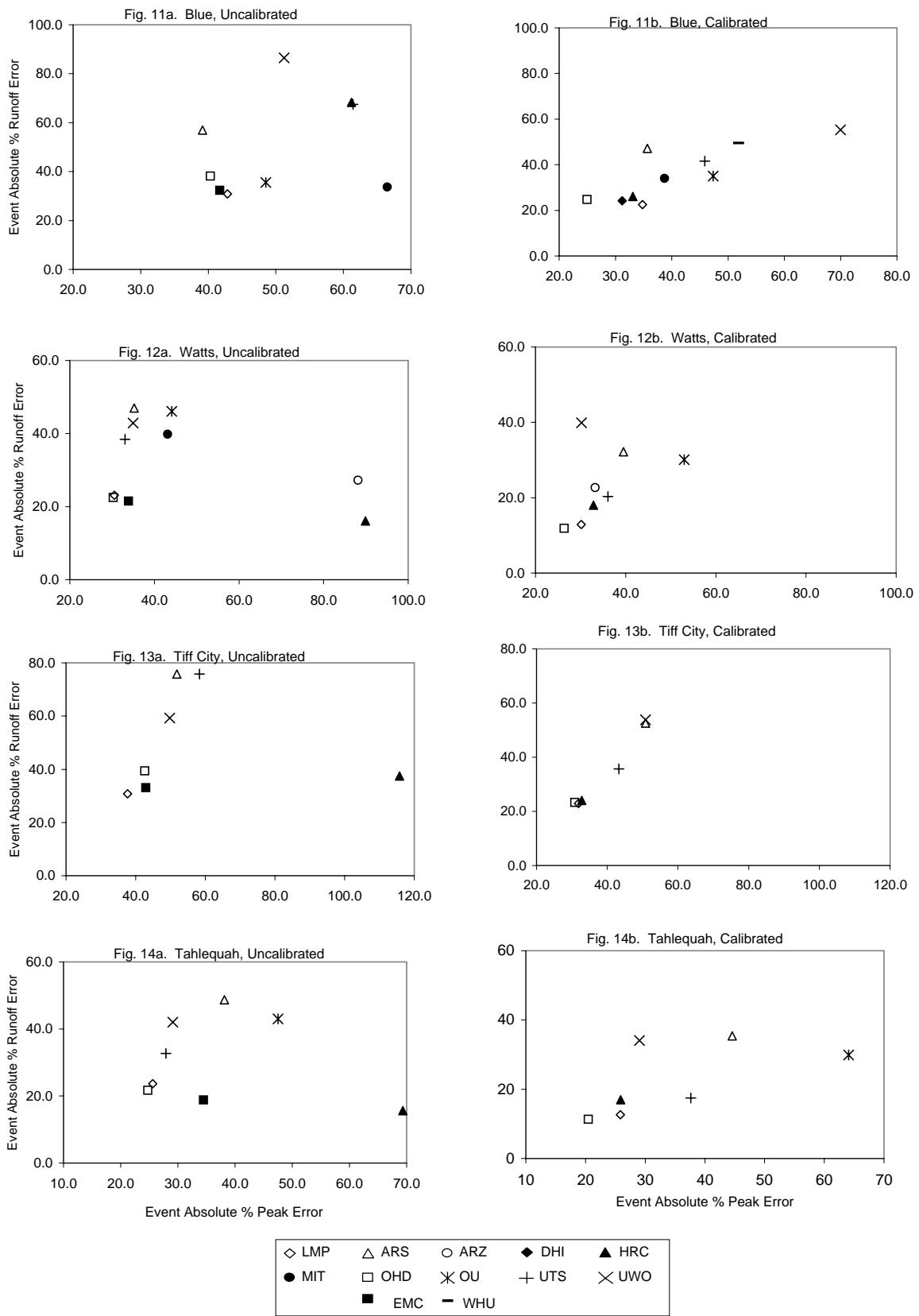


Figure 6. Overall r_{mod} : Averaged values for calibrated and uncalibrated models during the validation period (6/1999 - 7/2000).



◊ LMP	△ ARS	○ ARZ	◆ DHI	▲ HRC
● MIT	□ OHD	✗ OU	+	×
■ EMC	- WHU			
+	UTS	UWO		



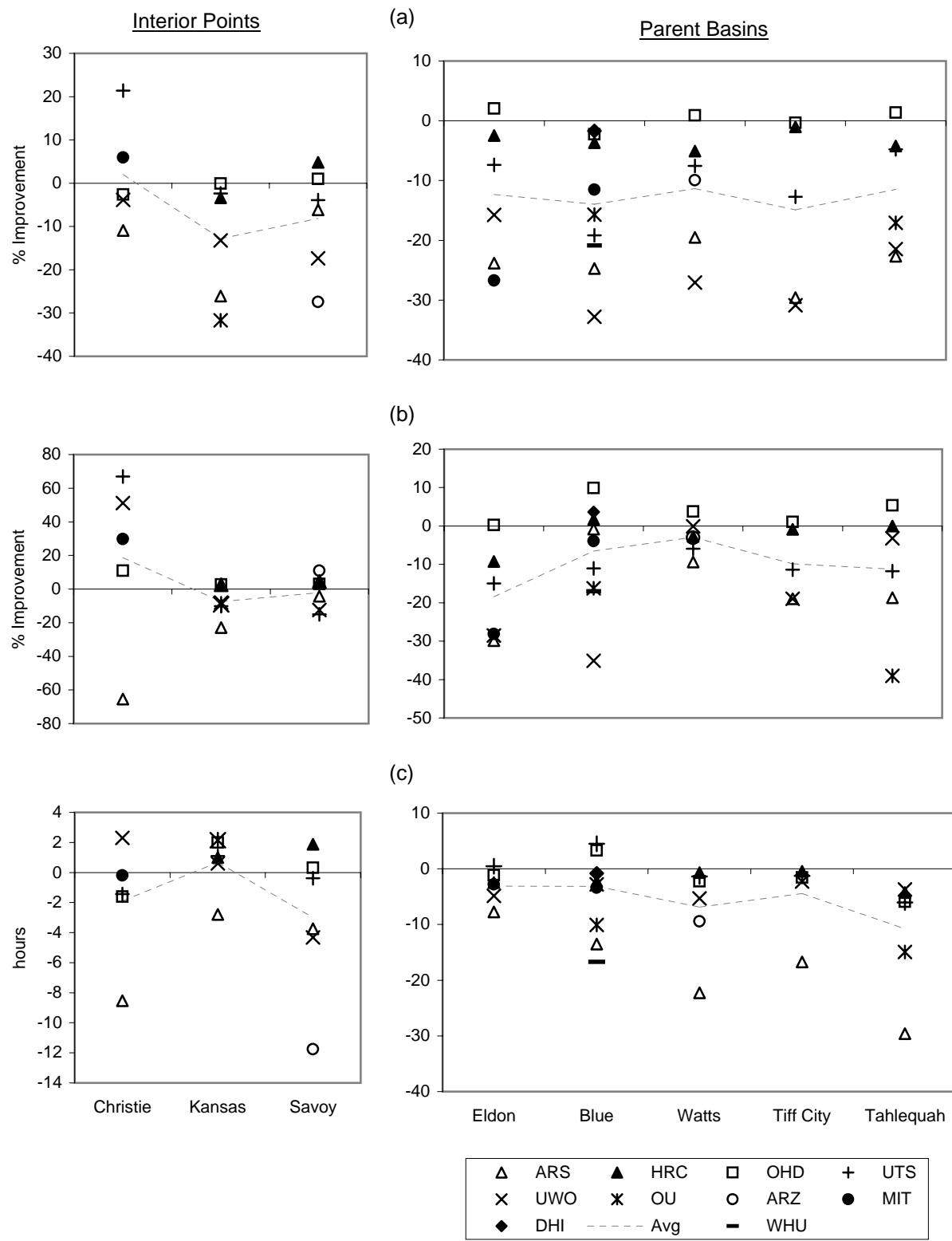


Figure 15. Distributed results compared to lumped results for calibrated models. (a) Flood runoff improvement, (b) flood peak improvement, and (c) peak time improvement.

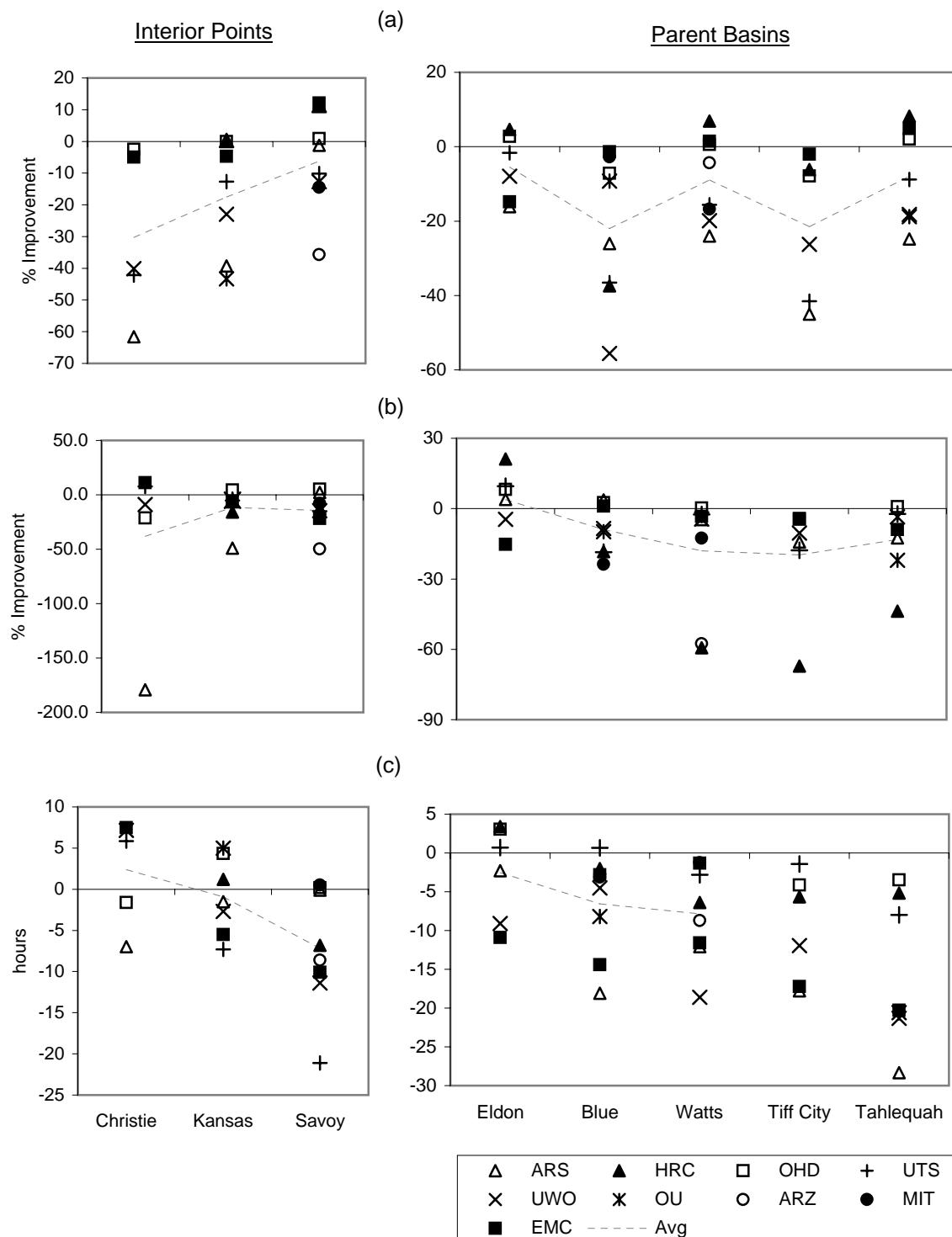


Figure 16. Distributed results compared to lumped results for uncalibrated Models.
(a) Flood runoff improvement, (b) flood peak improvement, and (c) peak time

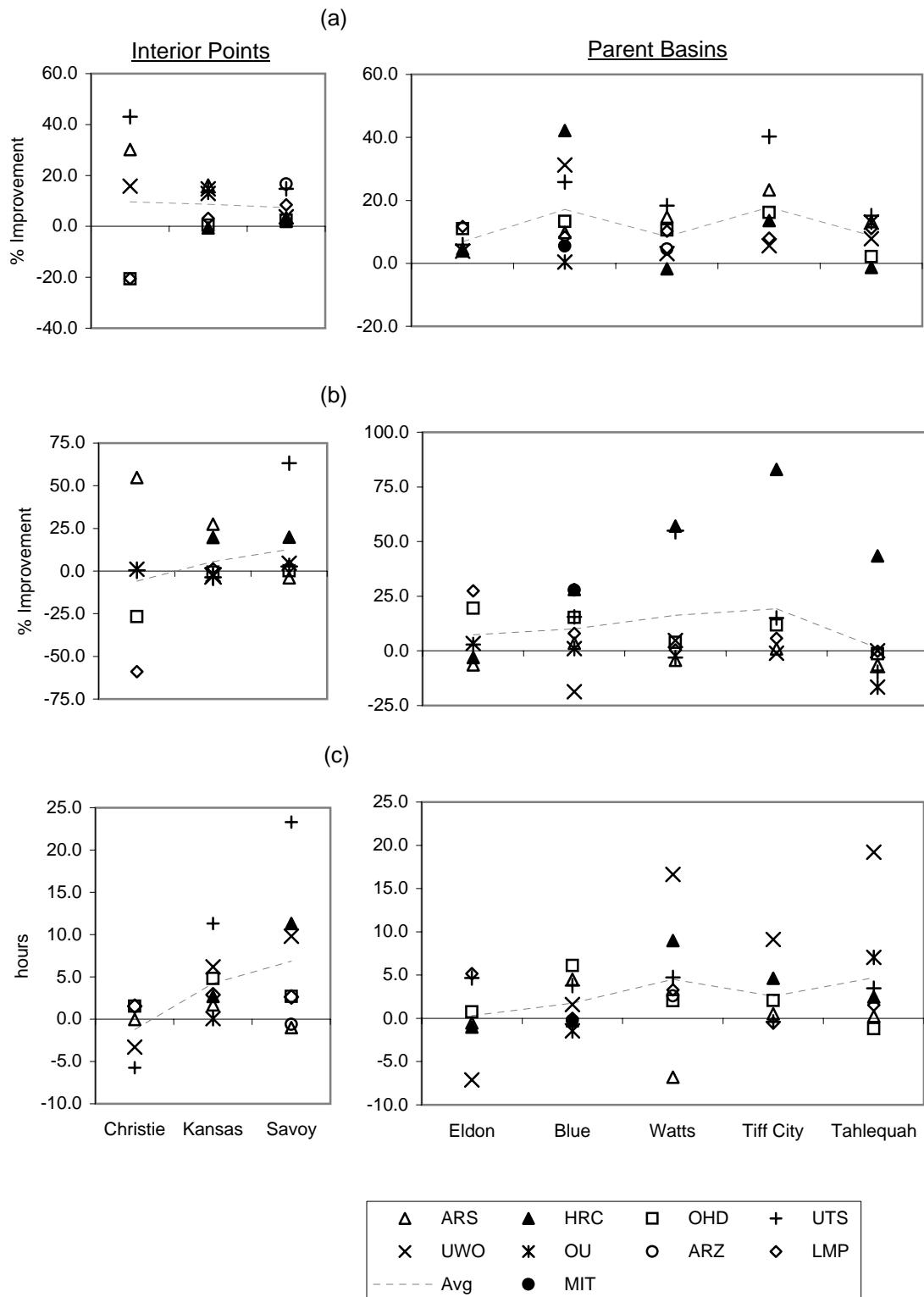


Figure 17. Calibrated results compared to uncalibrated results. (a) Flood runoff improvement, (b) flood peak improvement, and (c) peak time improvement.

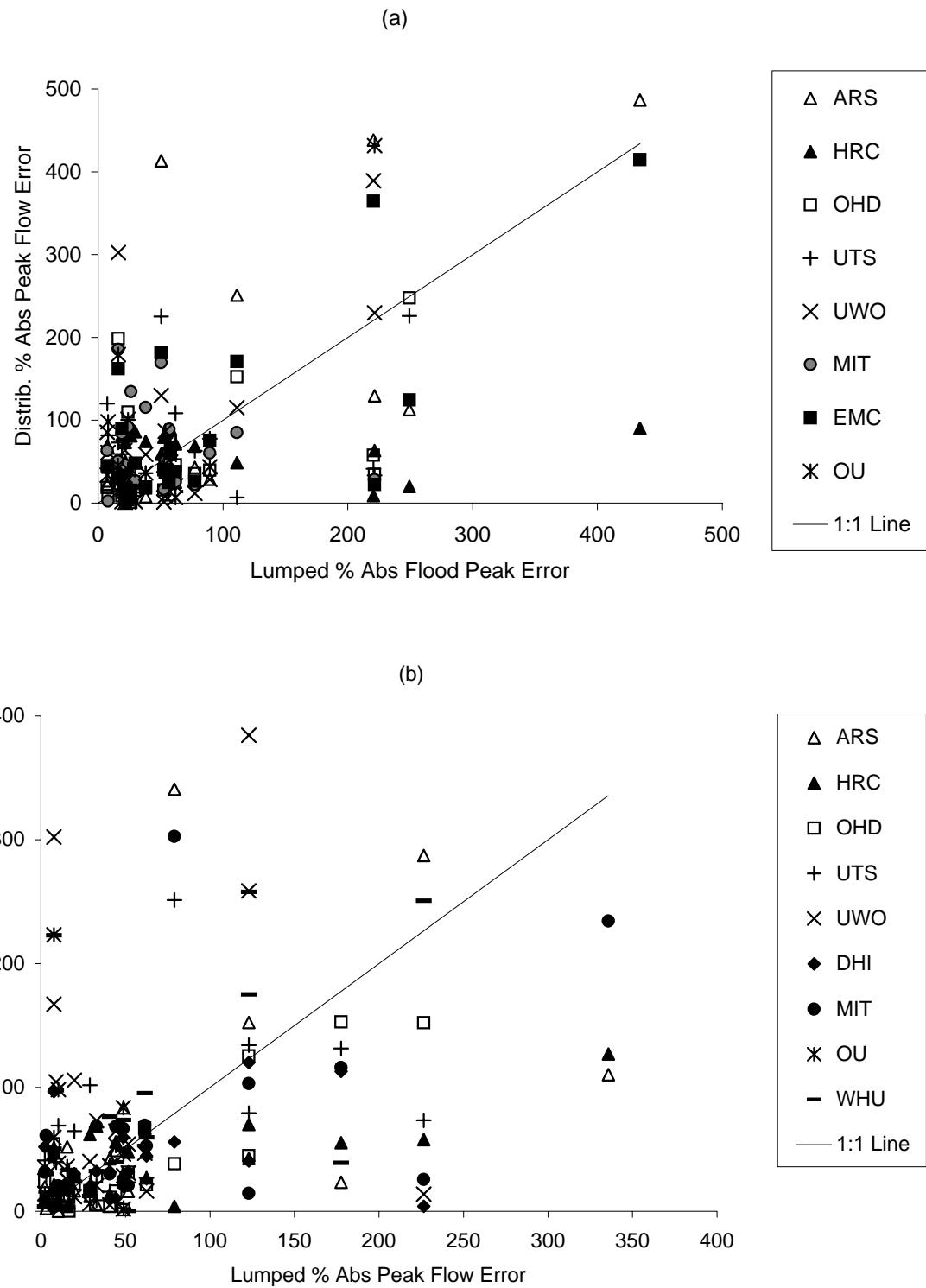


Figure 18. Distributed percent absolute peak flow errors vs. lumped percent absolute peak flow errors for Blue events: (a) uncalibrated and (b) calibrated models.

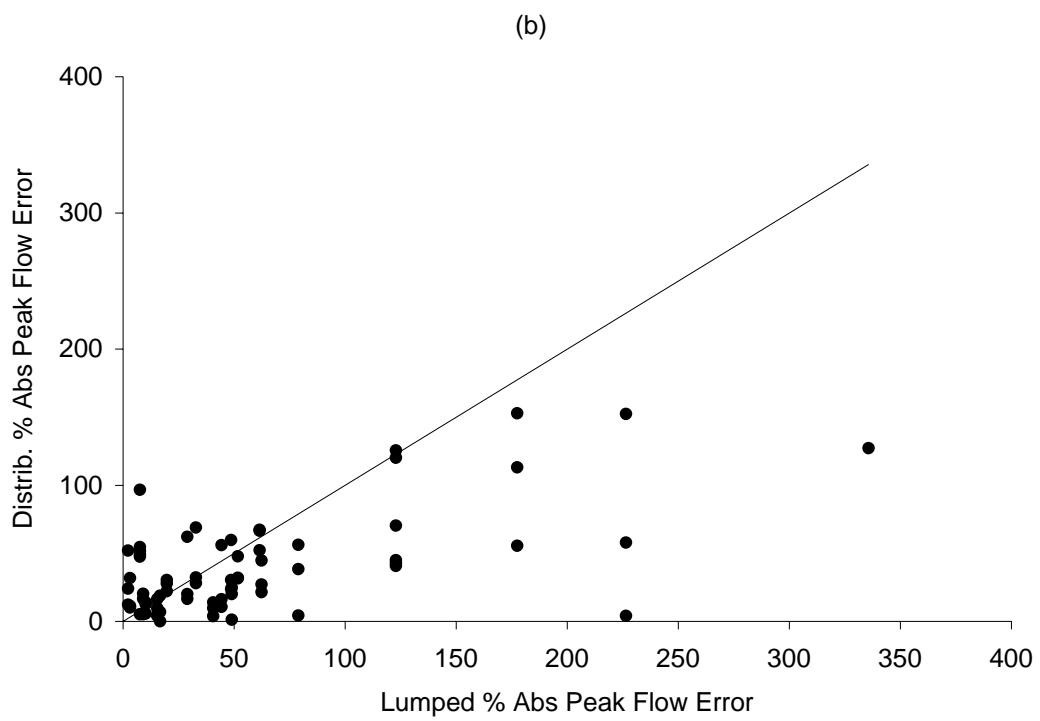
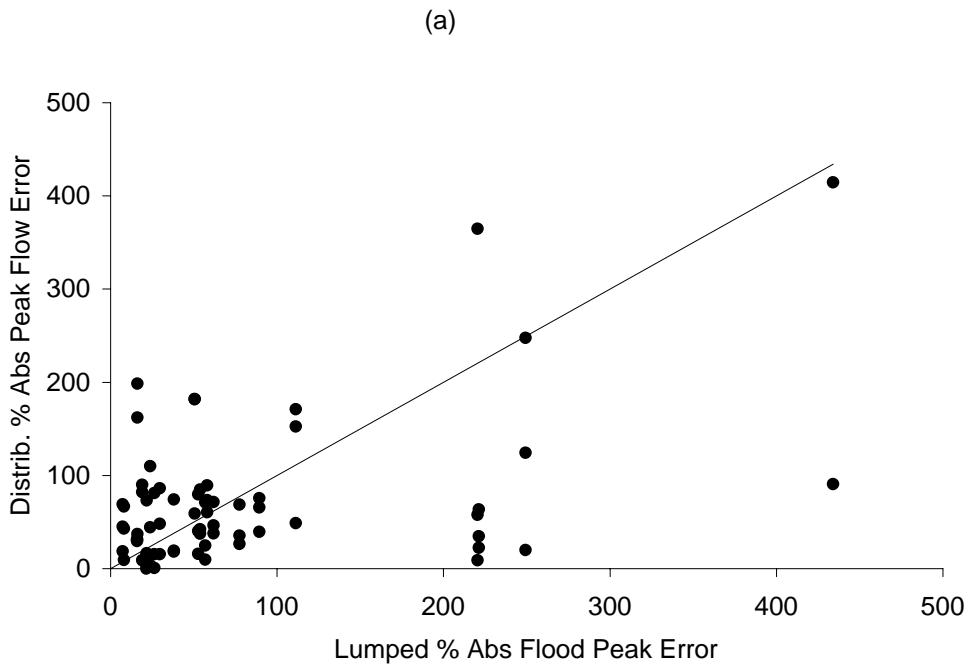


Figure 19. Distributed percent absolute peak flow errors vs. lumped percent absolute peak flow errors for Blue events: (a) uncalibrated and (b) calibrated models. Data shown are for the three distributed models with the lowest average absolute peak flow simulation error for Blue.

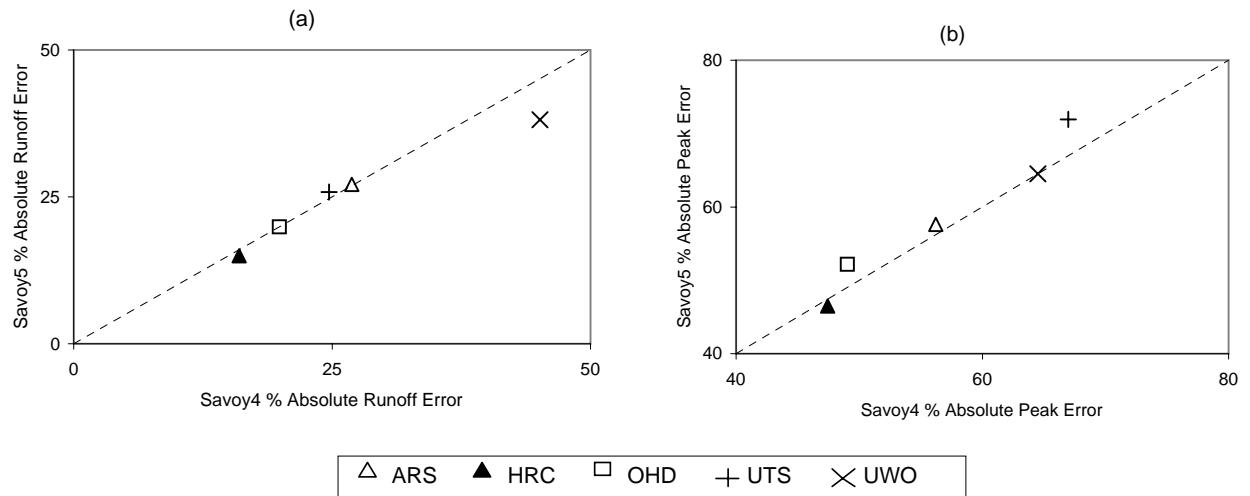


Fig. 20. Comparisons of results at Savoy from initial calibrations at Tahlequah (instruction 5) and Watts (instruction 4): (a) event percent absolute runoff error and (b) event percent absolute peak flow error.

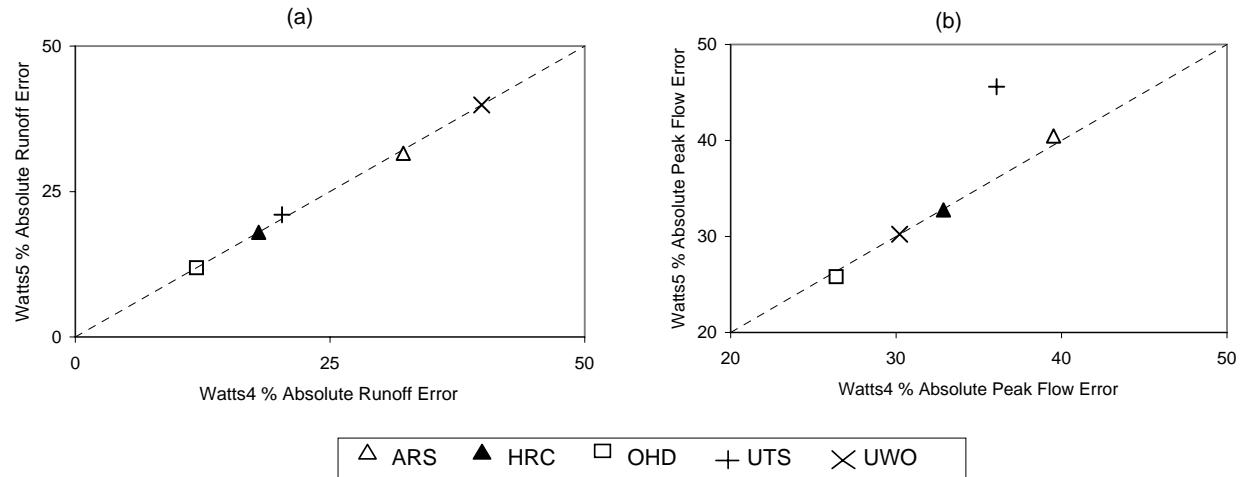


Figure 21. Comparisons of results at Watts from initial calibrations at Tahlequah (instruction 5) and Watts (instruction 4): (a) event percent absolute runoff error and (b) event percent absolute peak flow error.

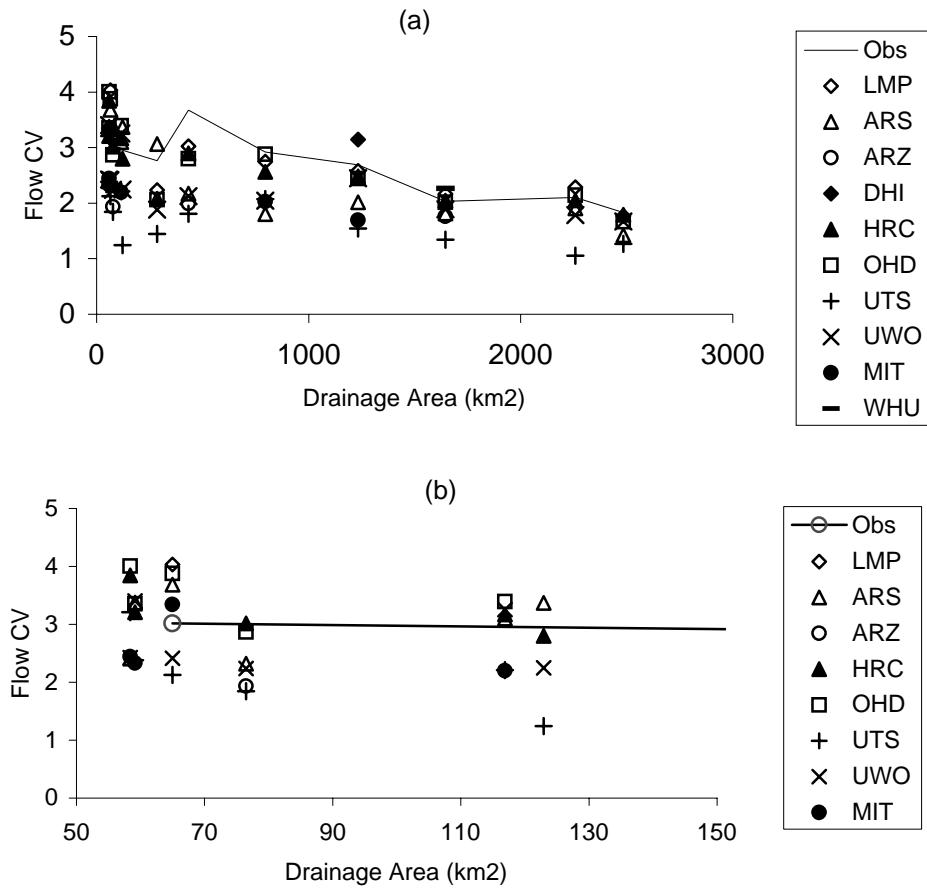


Fig. 22. Flow coefficients of variation for observed flows (solid line) and modeled flows (for both gaged and ungaged locations): (a) all basin sizes and (b) a closer look at the small basins.